

**Flood Control Project Maintenance
Levee Inspections**

Fall 2016 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

MA0017	Overall LMA Rating	Total LMA Miles						
Sutter Maintenance Yard Maintenance Area 0017	U	3.87						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.10		0.10	2.58%				
Trim / Thin Trees	0.01	2.94	11.77	303.77%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.06	0.03		
<i>LMA Totals:</i>	0.11	2.94	11.87	306.35%	0.06	0.03	0.00	0.00

Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek LB	Overall Unit Rating	Total Unit Miles						
MA0017	U	3.87						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.10		0.10	2.58%				
Trim / Thin Trees	0.01	2.94	11.77	303.77%				
<i>Supplemental</i>								
DWR UCIP Field Study					0.06	0.03		
<i>Unit Totals:</i>	0.11	2.94	11.87	306.35%	0.06	0.03	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2016 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0017

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)			U	

** Non-receipt of Summer or Winter Inspection
Reports may effect overall annual rating.

† SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0017

Waterway			Bank	Unit Miles
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek			Left	3.87
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	5/2/2016 - 5/2/2016		9/28/2016 - 9/28/2016	
DWR Inspector	Keith Millard		Tariq Chechi	
Accompanied By	Bryan Reniff Sutter Maintenance Yard		Bryan Reniff Sutter Maintenance Yard	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	09/28/2016 09/28/2016	Tariq Chechi

LM Start		Rating **	A	Issue No.	7
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	
				°	
DWR ID	DWR_MA0017_01_s_2013_7				
Comment Code					
Inspector Comment					
The LMA has the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	8
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	
				°	
DWR ID	DWR_MA0017_01_s_2013_8				
Comment Code					
Inspector Comment					
The LMA has adequate flood fight supplies and equipment.					

No Photos

LM Start		Rating **	A	Issue No.	9
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	
				°	
DWR ID	DWR_MA0017_01_s_2013_9				
Comment Code					
Inspector Comment					
The LMA completed flood fight training in 2014.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	09/28/2016 09/28/2016	Tariq Chechi

LM Start	3.50	Rating **	M	Issue No.	17
LM End	3.50	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.147927 °	39.147927 °
				-122.911294 °	-122.911294 °
DWR ID	DWR_MA0017_01_f_2016_17				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	3.81	Rating **	M	Issue No.	15
LM End	3.84	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.144980 °	39.144620 °
				-122.907073 °	-122.906546 °
DWR ID	DWR_MA0017_01_s_2016_15				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Large bushes and brambles covering wire fence, limiting visibility and access.					

Photo 1 of 1 : FA_2016_MA0017_339_15_20161003_00029.jpg



View of the large bushes limiting visibility and access.

LM Start	3.96	Rating **	M	Issue No.	16
LM End	4.03	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.143741 °	39.143585 °
				-122.904705 °	-122.903482 °
DWR ID	DWR_MA0017_01_s_2016_16				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Large bushes and brambles growing on wire fence on LS toe limiting visibility and access.					

Photo 1 of 1 : FA_2016_MA0017_339_16_20160823_00008.jpg



5/2/2016: Remove or trim dense vegetation growing on fence to allow visibility and access to L/S toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	09/28/2016 09/28/2016	Tariq Chechi

LM Start	4.16	Rating **	U	Issue No.	2
LM End	7.10	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.141894 °	39.120609 °
				-122.902201 °	-122.887166 °
DWR ID	DWR_MA0017_01_s_2012_2				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Trees and limbs are completely obstructing visibility on crown and WS. Crown is too narrow to drive, and overgrown with weeds, brush and trees. Road follows LS toe.					

LM Start	4.16	Rating **	U	Issue No.	2 (cont)
LM End	7.10	Issue Type +	Ma	Location *	WS

Photo 1 of 2 : FA_2016_MA0017_339_2_20160823_00001.jpg



View of the trees along the waterside slope and toe.

Photo 2 of 2 : FA_2016_MA0017_339_2_20160823_00002.jpg



Photo taken at LM 6.41 looking west showing overgrown LS slope of levee at right and toe road at left. Note trees obstructing visibility and access at levee crown. Crown is +/- 5 feet wide, and impassible to vehicles due to vegetation, and in some places, to pedestrians.
4/19/2016

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	09/28/2016 09/28/2016	Tariq Chechi

LM Start	4.27	Rating **	M	Issue No.	26
LM End	4.27	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.140422 °	39.140422 °
				-122.902022 °	-122.902022 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50817 DS_ID:846 EP_NO: 11462 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/19/2016 No riser lid or slide gate wheel. (DWR Sutter Yard- A Freitag)6/14/2016 No riser lid and no wheel to operate screw gate.4/23/2015 Still no lid on riser and wheel to operate slide gate is missing.7/3/2014 Same as last inspection.12/23/2013 Same as last inspection.8/2/2013 Same as last inspection.12/13/2012 No lid on riser-may or may not be an issue. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 19 feet below the crown. Slide gate in 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. (Automatic Board Order (ABO) issued as Permit No. 11462, 1975 - Hobson) [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 11/21/2016 12:11:29 PM					

LM Start	4.27	Rating **	M	Issue No.	26 (cont)
LM End	4.27	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_50817_46858.jpg



Slide gate in CMP riser on WS slope.

Photo 2 of 2 : UCIP_FA_2016_50817_46857.jpg



LS toe at approximate location of pipe inlet.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	09/28/2016 09/28/2016	Tariq Chechi

LM Start	5.34	Rating **	M	Issue No.	18
LM End	5.34	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.127449 °	39.127449 °
				-122.893460 °	-122.893460 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50818
DS_ID:847
EP_NO: 11469
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 10/19/2016 Sack ring still in place. (DWR Sutter Yard- A Freitag) 6/14/2016 Sack ring is still built up underneath the pipes. 4/23/2015 Sack ring is still built up underneath the pipes. 7/3/2014 Same as last inspection. 12/23/2013 Same as last inspection. 8/2/2013 Same as last inspection. 12/13/2012 flood fight materials-ring levees around both LS and WS slopes at pipe crossing. This may or may not be an issue.
FIELD_STRUCT_DESC: 1 of 2: 16-inch steel drainage pipe through the levee, 5 feet below the crown. Drainage pumping plant on the landside (LS). Flap gate on the waterside (WS) end. (Automatic Board Order (ABO) issued as Permit No. 11469, 1975 - RD 2070). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 506.3, August 1961, (HLM 5.43)].
FS Date: 11/21/2016 12:11:57 PM

LM Start	5.34	Rating **	M	Issue No.	18 (cont)
LM End	5.34	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_50818_46860.jpg



Pumping plant, pipes, and ring levees on LS toe.

Photo 2 of 2 : UCIP_FA_2016_50818_46859.jpg



16-inch pipe, flap gate, air vent, and ring levee on WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	09/28/2016 09/28/2016	Tariq Chechi

LM Start	5.35	Rating **	M	Issue No.	19
LM End	5.35	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.127451 °	39.127451 °
				-122.893450 °	-122.893450 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50819
DS_ID:853
EP_NO: 11469
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 10/19/2016 Sack ring still in place. (DWR Sutter Yard- A Freitag) 6/14/2016 Sack ring is still built up underneath the pipes. 4/23/2015 Sack ring still built up underneath the pipes. 7/3/2014 Same as last inspection. 12/23/2013 Same as last inspection. 8/2/2013 Same as last inspection. 12/13/2012 flood fight materials-ring levees around both LS and WS slopes at pipe crossing. This may or may not be an issue.
FIELD_STRUCT_DESC: 2 of 2: 36-inch steel drainage pipe through the levee, 5 feet below the crown. Flap gate and air vent on the waterside (WS) slope. (Automatic Board Order (ABO) issued as Permit No. 11469, 1975 - RD 2070). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 506.3, August 1961, (HLM 5.43)].
FS Date: 11/21/2016 12:12:31 PM

LM Start	5.35	Rating **	M	Issue No.	19 (cont)
LM End	5.35	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_50819_46864.jpg



Pipes and pump house on LS toe with ring levees.

Photo 2 of 2 : UCIP_FA_2016_50819_46863.jpg



Pipe, flap gate, air vent, and sandbags on WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	09/28/2016 09/28/2016	Tariq Chechi

LM Start	5.78	Rating **	M	Issue No.	20
LM End	5.78	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.127612 °	39.127612 °
				-122.885520 °	-122.885520 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50820 DS_ID:848 EP_NO: 11457 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/19/2016 No riser lid or slide gate wheel. (DWR Sutter Yard- AFreitag)6/14/2016 No riser lid and no wheel to operate screw gate.4/23/2015 No cover on riser and no wheel to operate gate.7/3/2014 Same as last inspection.12/23/2013 Same as last inspection.8/2/2013 Handle to operate gate was in place but still no cover on riser.12/13/2012 No cover on CMP riser and no handle for actuating gate. This may or may not be an issue. FIELD_STRUCT_DESC: 24-inch drainage pipe under patrol road and through the levee, 13.5 feet below the crown. Concrete "U" shaped headwall on the landside (LS) end. Slide gate in 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Riser unit is mounted on concrete base. (Automatic Board Order (ABO) issued as Permit No. 11457, 1975 - Crawford). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 506.3, August 1961, (HLM 5.87)]. FS Date: 11/21/2016 12:12:57 PM					

Photo 1 of 2 : UCIP_FA_2016_50820_46866.jpg



36-inch CMP riser and slide gate on WS slope.

LM Start	5.78	Rating **	M	Issue No.	20 (cont)
LM End	5.78	Issue Type +	En	Location *	WS

Photo 2 of 2 : UCIP_FA_2016_50820_46865.jpg



Approximate location of inlet on LS toe (not visible).

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	09/28/2016 09/28/2016	Tariq Chechi

LM Start	5.99	Rating **	M	Issue No.	21
LM End	5.99	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.126057 °	39.126057 °
				-122.883096 °	-122.883096 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50823 DS_ID:20589 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 10/19/2016 12" pipe not present for this inspection. (DWR Sutter Yard- A Freitag)6/14/2106 12" pipe was removed from the roadway. Portable pump was not found on the bank this time.4/23/2015 12" pipe still ran over the top of roadway. 7/3/2014 Same as last inspection.12/23/2013 No signs of 12" pvc. Portable tow-pump was lowered down on waterside with 12" pipe ran over roadway.8/2/2013 Same as last inspection.12/13/2012 No permit for crossing. FIELD_STRUCT_DESC: *REMOVED* 12-inch high-density polyethylen (HDPE) drainage pipe through the levee, 1.5 feet below the crown. No permit has been identified since crossing was field discovered in 2012. FS Date: 11/21/2016 12:14:52 PM					

Photo 1 of 1 : UCIP_FA_2016_50823_47920.jpg



Portable pump on WS and temporary piping over roadway

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	09/28/2016 09/28/2016	Tariq Chechi

LM Start	6.00	Rating **	U	Issue No.	22
LM End	6.00	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.126038 °	39.126038 °
				-122.883351 °	-122.883351 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50824
DS_ID:20587
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 10/19/2016 WS erosion still present. (DWR Sutter Yard- A Freitag)6/14/2016 WS erosion is still present. (DWR Sutter Yard - a Freitag)4/23/2015 Erosion on WS shoulder is still present. (DWR Sutter Yard - a Freitag)7/3/2014 Same as last inspection. (DWR Sutter Yard - a Freitag)12/23/2013 Same as last inspection. (DWR Sutter Yard - a Freitag)8/2/2013 Erosion on WS shoulder above pipes. (DWR Sutter Yard - a Freitag)12/13/2012 No permit for this crossing. This is a primer line, used to fill up main pipe before its pump is turned on (Permit No. 11467). (DWR UCIP - wwyliie)
FIELD_STRUCT_DESC: 4-inch polyvinyl (PVC) conduit through the levee, 2 feet below the crown with plastic pipe running through it to pump on the landside (LS). No permit has been identified since crossing was field discovered in 2012.
FS Date: 11/21/2016 12:15:33 PM

LM Start	6.00	Rating **	U	Issue No.	22 (cont)
LM End	6.00	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_50824_46878.jpg



4-inch pvc pipe with green flexible pipe running through it on WS shoulder.

Photo 2 of 2 : UCIP_FA_2016_50824_46877.jpg



4-inch pvc pipe with green flexible pipe running through it on WS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	09/28/2016 09/28/2016	Tariq Chechi

LM Start	6.00	Rating **	U	Issue No.	23
LM End	6.00	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.126038 °	39.126038 °
				-122.883351 °	-122.883351 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50825
DS_ID:20588
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 10/19/2016 WS erosion still present. (DWR Sutter Yard- AFreitag)6/14/2016 WS erosion is still present. (DWR Sutter Yard - afreitag)4/23/2015 Erosion still present on WS shoulder. (DWR Sutter Yard - afreitag)7/3/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/23/2013 Same as last inspection. (DWR Sutter Yard - afreitag)8/2/2013 Erosion on WS shoulder above pipes. (DWR Sutter Yard - afreitag)12/13/2012 No permit for this crossing. It is unclear what these hydraulic lines are for, but it is probably the works for a hydraulic butterfly valve at the outlet. (DWR UCIP - wwyllie)
FIELD_STRUCT_DESC: 4-inch polyvinyl chloride (PVC) conduit through the levee, 2 feet below the crown with hydraulic lines running through it to pump on the landside (LS) shoulder. No permit has been identified since crossing was field discovered in 2012.
FS Date: 11/21/2016 12:16:01 PM

LM Start	6.00	Rating **	U	Issue No.	23 (cont)
LM End	6.00	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_50825_46874.jpg



Pipe and hydraulic lines on WS shoulder.

Photo 2 of 2 : UCIP_FA_2016_50825_46873.jpg



Pump station on LS shoulder, see hydraulic pump at right.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	09/28/2016 09/28/2016	Tariq Chechi

LM Start	6.00	Rating **	U	Issue No.	24
LM End	6.00	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.126027 °	39.126027 °
				-122.883371 °	-122.883371 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50826
DS_ID:850
EP_NO: 11467
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 10/19/2016 WS erosion still present. (DWR Sutter Yard- A Freitag)6/14/2016 WS erosion is still present. (DWR Sutter Yard - a Freitag)4/23/2015 Same as last inspection. (DWR Sutter Yard - a Freitag)7/3/2014 Same as last inspection. (DWR Sutter Yard - a Freitag)12/23/2013 Same as last inspection. (DWR Sutter Yard - a Freitag)8/2/2013 Same as last inspection. (DWR Sutter Yard - a Freitag)12/13/2012 This pipe and appurtenances do not match what was described in the permit (PN: 11467). Does not appear to be in compliance with board regulations. (DWR UCIP - wwyliie)
FIELD_STRUCT_DESC: 12-inch steel drainage pipe through the levee, 2-feet below the crown. Butterfly valve on the landside (LS) shoulder. Pump and electric panel along with multiple valves and appurtenances on the LS shoulder. (Automatic Board Order (ABO) issued as Permit No. 11467, 1975 - Modglin[Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 506.3, August 1961, (HLM 6.11)]).
FS Date: 11/21/2016 12:16:25 PM

LM Start	6.00	Rating **	U	Issue No.	24 (cont)
LM End	6.00	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_50826_46882.jpg



12-inch pipe and appurtenances on WS shoulder.

Photo 2 of 2 : UCIP_FA_2016_50826_46881.jpg



12-inch pipe and appurtenances on WS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	09/28/2016 09/28/2016	Tariq Chechi

LM Start	7.16	Rating **	M	Issue No.	25
LM End	7.16	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.120083 °	39.120083 °
				-122.886502 °	-122.886502 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50827
DS_ID:851
EP_NO: 11467
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 10/19/2016 Abandoned- should be done so properly.
(DWR Sutter Yard- AFreitag)6/14/2016 Abandoned
crossing.4/23/2015 Same as last inspection. Pipe still needs to be
properly abandoned.7/3/2014 Same as last inspection.12/23/2013
Same as last inspection.8/2/2013 Same as last
inspection.12/13/2012 Pipe should be properly abandoned.
FIELD_STRUCT_DESC: *ABANDONED* 1 of 2: 16-inch steel drainage
pipe through the levee, 8 feet below the crown. Drainage pumping plant
on the landside (LS). Flap gate on the waterside (WS) end. Steel
plate welded on end of pipe at LS toe. (Automatic Board Order (ABO)
issued as Permit No. 11467, 1975 - Modglin][Additional
Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M
Manual 506.3, August 1961, (HLM 7.19)].
FS Date: 11/21/2016 12:16:52 PM

LM Start	7.16	Rating **	M	Issue No.	25 (cont)
LM End	7.16	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_50827_46884.jpg



Pumping plant in shed on LS at drainage ditch.

Photo 2 of 2 : UCIP_FA_2016_50827_46883.jpg



Steel plate welded over end of pipe at LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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